

# 美国罗格斯大学Eric Lam教授 特邀学术报告



**时间:** 2010年11月18日(周四), 上午 9:00 - 10:30

**地点:** 过程大厦 308 会议室

**题目:** Renewable and Sustainable Fuel Solutions  
in the 21st Century

**摘要:**

Two of the most serious long-term problems currently faced by society at the national and global levels are: 1) the threat of climate change, resulting from massive and increasing use of fossil fuels in the past century; and 2) the looming shortage of energy sources in the face of increasing demand for a limited supply of fossil fuels. A primary solution to both of these problems is development of renewable and sustainable fuels. This is one of the "Grand Challenges" of the 21st century, and its implementation will require a highly interdisciplinary approach with careful planning and economically-sound strategies adaptable to multiple locales of diverse climates and geopolitical structures. With the objective to produce the next generation of leaders to tackle the complex problems associated with this great transformation of the worldwide energy economy in this century, Rutgers has been funded by the NSF-IGERT program to create an innovative graduate program focusing on fuel alternatives to the current petroleum-based one. This talk will provide an overview of this IGERT project and opportunities for international partnerships to create functional networks across the globe. Finally, research and development on using duckweed, an aquatic plant found all over the world, as a rising biomass production platform using existing wastewater streams will be discussed.

## 报告人简介:

### EDUCATION

1977-80 B.S. Chemistry State University of New York at Stony Brook, NY

1980-84 Ph.D. Biophysics University of California Berkeley (UCB) CA

### RESEARCH INTERESTS

Plant Biotechnology for Biofuels and Biomedicine; Chromatin and Epigenetic Control; Plant Stress Tolerance; Cell Death Control in Plants

### SCHOLARSHIPS AND HONORS

2008- present Advisory Board, Rutgers Energy Institute

2004- present Editorial Board, BMC Plant Biology

1996- present Co-Editor, Plant Molecular Biology

1996-2007 Panel Member, NSF Study Section

1995 Special Reviewer for NIH Molecular Biology Study Section

1993 Johnson and Johnson Discovery Fellow

1987 Walter J. Johnson Award from Academic Press

1977 New York State Regents Scholarship

### PROFESSIONAL EXPERIENCE

2010-present Professor II, Department of Plant Biology and Pathology, Rutgers University, NJ

2009-present Adjunct Professor, School of Environment and Energy, Graduate School of Peking University in Shenzhen, Shenzhen, China

2008-10 Director, Biotechnology Center for Agriculture and the Environment, Rutgers

2000-10 Professor I, Department of Plant Biology and Pathology, Rutgers State University, Biotech Center, New Jersey

2002-04 Department Head for Botany, The University of Hong Kong

2001-04 Chair of Botany, The University of Hong Kong, Hong Kong SAR of China

1997-98 Instructor for Cold Spring Harbor course on Arabidopsis Molecular Genetics

1995-00 Associate Professor, Department of Plant Science, Rutgers State University, AgBiotech Center, New Brunswick, NJ

1989-95 Assistant Professor, Department of Plant Science, Rutgers State University, AgBiotech Center, New Brunswick, NJ

1985-89 Postdoctoral Fellow, Laboratory of Plant Molecular Biology, Rockefeller University

1984-85 Postdoctoral Fellow, Division of Molecular Plant Biology, UCB

1982-84 Research Assistant, Division of Molecular Plant Biology, UCB

1982 Teaching Assistant, Department of Physiology-Anatomy, UCB

1981 Teaching Assistant, Department of Biophysics, UCB